

Appl. No. 09/989,628  
Arndt, Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method for determining whether two or more parameters influence one another within a communications network, comprising the steps of:
  - obtaining a set of measurements for two or more parameters within the communications network;
  - determining a correlation between each of the two or more parameters;
  - determining a partial correlation between each of the two or more parameters if at least three parameter measurements are made;
  - determining whether the correlations and the partial correlations are statistically significant; and
  - determining whether the two or more parameters, if any, influence one another based on the statistically significant correlations and partial correlations.
2. (Original) The method as recited in claim 1, wherein the two or more parameters include a key performance indicator.
3. (Original) The method as recited in claim 1, wherein the two or more parameters include an indicator of network accessibility.
4. (Original) The method as recited in claim 1, wherein the two or more parameters include an indicator of service quality.
5. (Original) The method as recited in claim 1, wherein the two or more parameters include an indicator of dropped handoffs.

Appl. No. 09/989,628  
Amtd. Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

6. (Original) The method as recited in claim 1, wherein the two or more parameters include an indicator of designation failures.

7. (Original) The method as recited in claim 1, wherein the two or more parameters include an indicator of digital page failures.

8. (Original) The method as recited in claim 1, wherein the two or more parameters are measured within one or more wireless network cells.

9. (Original) The method as recited in claim 1, wherein the two or more parameters are measured within a cluster of wireless network cells.

10. (Original) The method as recited in claim 1, wherein the two or more parameters are measured at one or more switches.

11. (Original) The method as recited in claim 1, wherein the two or more parameters are measured at a network level.

12. (Original) The method as recited in claim 1, further comprising the step of storing the measurements for the two or more parameters in a data storage mechanism.

13. (Original) The method as recited in claim 1, wherein the step of obtaining the set of measurements for the two or more parameters comprises the step of retrieving the set of measurements for the two or more parameters from a data storage mechanism.

14. (Original) The method as recited in claim 1, wherein the step of obtaining the set of measurements for the two or more parameters comprises the steps of:

Appl. No. 09/989,628  
Arndt Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

requesting the set of measurements for the two or more parameters from one or more network devices; and

receiving the set of measurements for the two or more parameters from one or more network devices.

15. (Original) The method as recited in claim 1, further comprising the steps of:

identifying a problem within the communications network;  
identifying the two or more parameters that relate to the problem; and  
using the parameters that influence one another to solve the problem.

16. (Currently Amended) A computer program embodied on a computer readable medium for determining whether two or more parameters influence one another within a communications network, comprising:

a code segment for obtaining a set of measurements for the two or more parameter within the communications network;

a code segment for determining a correlation between each of the two or more parameters;

a code segment for determining a partial correlation between each of the two or more parameters if at least three parameter measurements are made;

a code segment for determining whether the correlations and the partial correlations are statistically significant; and

a code segment for determining whether the two or more parameters, if any, influence one another based on the statistically significant correlations and partial correlations.

17. (Original) The computer program as recited in claim 16, wherein the two or more parameters include a key performance indicator.

Appl. No. 09/989,628  
Arndt Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

18. (Original) The computer program as recited in claim 16, wherein the two or more parameters include an indicator of network accessibility.

19. (Original) The computer program as recited in claim 16, wherein the two or more parameters include an indicator of service quality.

20. (Original) The computer program as recited in claim 16, wherein the two or more parameters include an indicator of dropped handoffs.

21. (Original) The computer program as recited in claim 16, wherein the two or more parameters include an indicator of designation failures.

22. (Original) The computer program as recited in claim 16, wherein the two or more parameters include an indicator of digital page failures.

23. (Original) The computer program as recited in claim 16, wherein the two or more parameters are measured within one or more wireless network cells.

24. (Original) The computer program as recited in claim 16, wherein the two or more parameters are measured within a cluster of wireless network cells.

25. (Original) The computer program as recited in claim 16, wherein the two or more parameters are measured at one or more switches.

26. (Original) The computer program as recited in claim 16, wherein the two or more parameters are measured at a network level.

27. (Original) The computer program as recited in claim 16, further comprising a code segment for storing the measurements for the two or more parameters in a data storage mechanism.

Appl. No. 09/989,628  
Amtd. Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

28. (Original) The computer program as recited in claim 16, wherein the code segment for obtaining the set of measurements for the two or more parameters comprises a code segment for retrieving the set of measurements for the two or more parameters from a data storage mechanism.

29. (Original) The computer program as recited in claim 16, wherein the code segment for obtaining the set of measurements for the two or more parameters comprises:

a code segment for requesting the set of measurements for the two or more parameters from one or more network devices; and

a code segment for receiving the set of measurements for the two or more parameters from one or more network devices.

30. (Currently Amended) A system for determining whether two or more parameters influence one another within a communications network, comprising:

a computer;

a data storage mechanism communicably coupled to the computer;

an interface communicably coupled to the computer for communicably coupling the computer to one or more network devices; and

the computer obtaining a set of measurements for the two or more parameters within the communications network, determining a correlation between each of the two or more parameters, determining a partial correlation between each of the two or more parameters if at least three parameter measurements are made, determining whether the correlations and the partial correlations are statistically significant, and determining whether the two or more parameters, if any, influence one another based on the statistically significant correlations and partial correlations.

31. (Original) The system as recited in claim 30, wherein the two or more parameters include a key performance indicator.

Appl. No. 09/989,628  
Amtd. Dated February 20, 2004  
Reply to Office action of November 24, 2003  
Attorney Docket No. P14737  
EUS/J/P/04-3037

32. (Original) The system as recited in claim 30, wherein the two or more parameters include an indicator of network accessibility.

33. (Original) The system as recited in claim 30, wherein the two or more parameters include an indicator of service quality.

34. (Original) The system as recited in claim 30, wherein the two or more parameters include an indicator of dropped handoffs.

35. (Original) The system as recited in claim 30, wherein the two or more parameters include an indicator of designation failures.

36. (Original) The system as recited in claim 30, wherein the two or more parameters include an indicator of digital page failures.

37. (Original) The system as recited in claim 30, wherein the two or more parameters are measured within one or more wireless network cells.

38. (Original) The system as recited in claim 30, wherein the two or more parameters are measured within a cluster of wireless network cells.

39. (Original) The system as recited in claim 30, wherein the two or more parameters are measured at one or more switches.

40. (Original) The system as recited in claim 30, wherein the two or more parameters are measured at a network level.

41. (Original) The system as recited in claim 30, wherein the computer stores the measurements for the two or more parameters in the data storage mechanism.

Appl. No. 09/989,628  
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Attorney Docket No. P14737  
EUS/J/P/04-3037

42. (Original) The system as recited in claim 41, wherein the computer obtains the set of measurements for the two or more parameters from the data storage mechanism.

*a1* 43. (Original) The system as recited in claim 41, wherein the computer obtains the set of measurements for the two or more parameters by requesting the set of measurements for the two or more parameters from the one or more network devices via the interface, and receiving the set of measurements for the two or more parameters from one or more network devices via the interface.